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L15: Entry 1 of 3

File: PGPB

Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030163439

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030163439 A1

TITLE: System and method for providing a persistent object framework for managing

persistent objects

PUBLICATION-DATE: August 28, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Hankin, Keith Palo Alto CA US Chu, Ching-Wen Alan Santa Clara CA US Mallayarupu, Nirupama Santa Clara CA US Kong, James Santa Clara CA US

US-CL-CURRENT: 707/1

☐ 2. Document ID: US 6418448 B1

L15: Entry 2 of 3

File: USPT

Jul 9, 2002

US-PAT-NO: 6418448

DOCUMENT-IDENTIFIER: US 6418448 B1

TITLE: METHOD AND APPARATUS FOR PROCESSING MARKUP LANGUAGE SPECIFICATIONS FOR DATA AND METADATA USED INSIDE MULTIPLE RELATED INTERNET DOCUMENTS TO NAVIGATE, QUERY AND MANIPULATE INFORMATION FROM A PLURALITY OF OBJECT RELATIONAL DATABASES OVER THE WEB

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

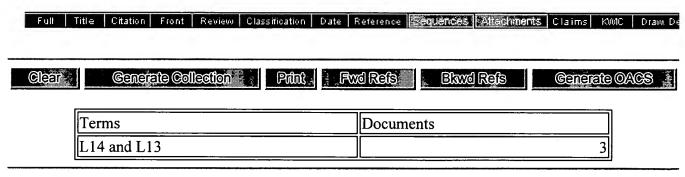
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US-CL-CURRENT: 707/104.1; 707/1, 707/100, 707/101, 707/103R, 709/203, 709/229

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☐ 3. Document ID: US	6351751 B1				··········
L15: Entry 3 of 3	File:	USPT .		Feb 26,	2002
US-PAT-NO: 6351751 DOCUMENT-IDENTIFIER: US 635	51751 B1				
TITLE: Persistent storage r	managers for configur	ing clien	t/server en	vironments	;
DATE-ISSUED: February 26, 2	2002				
INVENTOR-INFORMATION:					
NAME	CITY	STATE	ZIP CODE	COUNTRY	
Traversat; Bernard A.	San Francisco	CA			
Schmidt; Jeffrey A.	Boulder Creek	CA			
Saulpaugh; Thomas	San Jose	CA			
Woodward; Steve	Boca Raton	${ t FL}$			
Tracey; William J.	Round Rock	TX			
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ISSN:0360-0300

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↑ ABSTRACT

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These languages, which we term *database programming languages*, are the subject of this review. The design of these languages is still in its infancy, and the purpose of writing this review is to identify the areas in which further research is required. In particular, we focus on the problems of providing a uniform type system and mechanisms for data to persist. Of particular importance in solving these problems are issues of polymorphism, type inheritance, object identity, and the choice of structures to represent sets of similar values. Our conclusion is that there are areas of programming language research—modules, polymorphism, persistence, and inheritance—that must be developed and applied to achieve the goal of a useful and consistent database programming language. Other research areas of equal importance, such as implementation, transaction handling, and concurrency, are not examined here in any detail.

↑ REFERENCES

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1 Alfred V. Aho, Jeffrey D. Ullman, Universality of data retrieval languages, Proceedings of the 6th ACM SIGACT-SIGPLAN symposium on Principles of programming languages, p.110-119, January 29-

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of contents

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↑ ABSTRACT

In this paper, we describe transaction management in ORION, an object-oriented database system. The application environments for which ORION is intended led us to implement the notions of sessions of transactions, and hypothetical transactions (transactions which always abort). The objectoriented data model which ORION implements complicates locking requirements. ORION supports a concurrency control mechanism based on extensions to the current theory of locking, and a transaction recovery mechanism based on conventional logging.

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AHLS84 Matts Ahlsen, Anders Bjornerstedt, Stefan Britts, Christer Hulten, Lars Soderlund, An architecture for object management in OIS, ACM Transactions on Information Systems (TOIS), v.2 n.3, p.173-196, July 1984

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